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Approximation of Set-Valued Functions Nira Dyn 2014-10-30 This book is aimed at the approximation of set-valued functions with compact sets in an Euclidean space as values. The interest in set-valued functions is rather new. Such functions arise in various modern areas such as control theory, dynamical systems and optimization. The authors' motivation also comes from the newer field of geometric modeling, in particular from the problem of reconstruction of 3D objects from 2D cross-sections. This is reflected in the focus of this book, which is the approximation of set-valued functions with general (not necessarily convex) sets as values, while previous results on this topic are mainly confined to the convex case. The approach taken in this book is to adapt classical approximation operators and to provide error estimates in terms of the regularity properties of the approximated set-valued functions. Specialized results are given for functions with 1D sets as values. Contents:Scientific Background:On Functions with Values in Metric SpacesOn SetsOn Set-Valued Functions (SVFs)Approximation of SVFs with Images in \mathbb{R}^n :Methods Based on Canonical RepresentationsMethods Based on Minkowski Convex CombinationsMethods Based on the Metric AverageMethods Based on Metric Linear CombinationsMethods Based on Metric SelectionsApproximation of SVFs with Images in \mathbb{R}^n :SVFs with Images in \mathbb{R}^n Multi-Segmental and Topological RepresentationsMethods Based on Topological Representation Readership: Researchers and graduate students in the fields of approximation theory, set-valued analysis, dynamical systems, control and game theory, optimization and geometric modeling. Key Features:This is the only book on the subject of approximation of set-valued functionsIt presents the pioneering work on the approximation of set-valued functions with general (not necessarily convex) sets as valuesThe first author is an internationally known expert in the field of Approximation Theory, the second author is an expert in numerical set-valued and non-smooth analysis. The third author received her PhD recently under the supervision of the first two authors. Many of the results presented in the book are based on her thesisKeywords:Approximation;Set-Valued;Set Operations;Minkowski Sum;Metric Average;Parameterization of Sets;Positive Operators;Metric Spaces;Hausdorff Metric

Technologies for E-Learning and Digital Entertainment Zhigeng Pan 2008-07-07 This book constitutes the refereed proceedings of the Third International Conference on E-learning and Games, Edutainment 2008, held in Nanjing, China, in June 2008. The 83 revised full papers presented together with the abstract of 5 keynote speeches were carefully reviewed and selected from a total of 219 submissions. The papers are organized in topical sections on e-learning platforms and tools, e-learning system for education, application of e-learning systems, e-learning resource management, interaction in game and education, integration of game and education, game design and development, virtual characters, animation and navigation, graphics rendering and digital media, as well as geometric modeling in games and virtual reality.

Theory of Distributions for Locally Compact Spaces Professor of Mathematics Leon Ehrenpreis 2012-04-01

Annals of Numerical Mathematics 1997

A Functional Equation and Its Application to Wavelets and Image Analysis Carlos A. Cabrelli 1994

Bézier and B-Spline Techniques Hartmut Prautzsch 2013-04-17 This book provides a solid and uniform derivation of the various properties Bezier and B-spline representations have, and shows the beauty of the underlying rich mathematical structure. The book focuses on the core concepts of Computer Aided Geometric Design and provides a clear and illustrative presentation of the basic principles, as well as a treatment of

advanced material including multivariate splines, some subdivision techniques and constructions of free form surfaces with arbitrary smoothness. The text is beautifully illustrated with many excellent figures to emphasize the geometric constructive approach of this book.

SIAM Journal on Numerical Analysis 1999

The Mathematics of Time Steve Smale 2012-12-06

Whitaker's Books in Print 1998

The Z-spline Zijiang Yang 1997

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Advances in Computational Mathematics H P Dikshit 1994-05-18

Contents:Finite Elements for Kirchhoff and Mindlin-Reissner Plates (D Braess)A Multiscale Method for the Double Layer Potential Equation on a Polyhedron (W Dahmen et al)Shape Preserving GC2-Rational Cubic Splines (A Bhatt et al)Affine Operators and Frames of Multivariate Wavelets (C K Chui & X L Shi)Compressed Representations of Curves and Images Using a Multiresolution Box-Spline Framework (H Diamond et al)Wavelet Transformations and Matrix Compression (S L Lee et al)Using the Refinement Equation for the Construction of Pre-Wavelets VII: Strömberg Wavelets (C A Micchelli)An Extension of a Result of Rivlin on Walsh Equiconvergence (R Brück et al)Rational Complex Planar Splines (H P Dikshit et al)Constructive Aspects in Complex Analysis (D Gaier)Applications and Computation of Orthogonal Polynomials (W Gautschi)Approximation of Multivariate Functions (V Ya Lin & A Pinkus)Some Algorithms for Thin Plate Spline Interpolation to Functions of Two Variables (M J D Powell)and other papers Readership: Applied mathematicians. keywords:

Fractal Functions, Fractal Surfaces, and Wavelets Peter R. Massopust 2016-09-02 Fractal Functions, Fractal Surfaces, and Wavelets, Second Edition, is the first systematic exposition of the theory of local iterated function systems, local fractal functions and fractal surfaces, and their connections to wavelets and wavelet sets. The book is based on Massopust's work on and contributions to the theory of fractal interpolation, and the author uses a number of tools—including analysis, topology, algebra, and probability theory—to introduce readers to this exciting subject. Though much of the material presented in this book is relatively current (developed in the past decades by the author and his colleagues) and fairly specialized, an informative background is provided for those entering the field. With its coherent and comprehensive presentation of the theory of univariate and multivariate fractal interpolation, this book will appeal to mathematicians as well as to applied scientists in the fields of physics, engineering, biomathematics, and computer science. In this second edition, Massopust includes pertinent application examples, further discusses local IFS and new fractal interpolation or fractal data, further develops the connections to wavelets and wavelet sets, and deepens and extends the pedagogical content. Offers a comprehensive presentation of fractal functions and fractal surfaces Includes latest developments in fractal interpolation Connects fractal geometry with wavelet theory Includes pertinent application examples, further discusses local IFS and new fractal interpolation or fractal data, and further develops the connections to wavelets and wavelet sets Deepens and extends the pedagogical content *Analysis and Design of Univariate Subdivision Schemes* Malcolm Sabin 2010-08-16 'Subdivision' is a way of representing smooth shapes in a computer. A curve or surface (both of which contain an infinite number of points) is described in terms of two objects. One object is a sequence of vertices, which we visualise as a polygon, for curves, or a network of vertices, which we visualise by drawing the edges or faces of the network, for surfaces. The other object is a set of rules for making denser

sequences or networks. When applied repeatedly, the denser and denser sequences are claimed to converge to a limit, which is the curve or surface that we want to represent. This book focusses on curves, because the theory for that is complete enough that a book claiming that our understanding is complete is exactly what is needed to stimulate research proving that claim wrong. Also because there are already a number of good books on subdivision surfaces. The way in which the limit curve relates to the polygon, and a lot of interesting properties of the limit curve, depend on the set of rules, and this book is about how one can deduce those properties from the set of rules, and how one can then use that understanding to construct rules which give the properties that one wants.

Open Mappings on Locally Compact Spaces Gordon Thomas Whyburn 2012-05-01

Mathematics for Multimedia Mladen Victor Wickerhauser 2009-10-30 This textbook presents the mathematics that is foundational to multimedia applications. Featuring a rigorous survey of selected results from algebra and analysis, the work examines tools used to create application software for multimedia signal processing and communication. Replete with exercises, sample programs in Standard C, and numerous illustrations, *Mathematics for Multimedia* is an ideal textbook for upper undergraduate and beginning graduate students in computer science and mathematics who seek an innovative approach to contemporary mathematics with practical applications. The work may also serve as an invaluable reference for multimedia applications developers and all those interested in the mathematics underlying multimedia design and implementation.

Memoirs of the American Mathematical Society 1950

Wavelet Methods for Elliptic Partial Differential Equations Karsten Urban 2009 The origins of wavelets go back to the beginning of the last century and wavelet methods are by now a well-known tool in image processing (jpeg2000). These functions have, however, been used successfully in other areas, such as elliptic partial differential equations, which can be used to model many processes in science and engineering. This book, based on the author's course and accessible to those with basic knowledge of analysis and numerical mathematics, gives an introduction to wavelet methods in general and then describes their application for the numerical solution of elliptic partial differential equations. Recently developed adaptive methods are also covered and each scheme is complemented with numerical results, exercises, and corresponding software tools.

Notices of the American Mathematical Society American Mathematical Society 1991

Approximation Theory VII Elliott Ward Cheney 1993

Continued Fractions and Signal Processing Tomas Sauer 2021-09-06 Besides their well-known value in number theory, continued fractions are also a useful tool in modern numerical applications and computer science. The goal of the book is to revisit the almost forgotten classical theory and to contextualize it for contemporary numerical applications and signal processing, thus enabling students and scientist to apply classical mathematics on recent problems. The books tries to be mostly self-contained and to make the material accessible for all interested readers. This provides a new view from an applied perspective, combining the classical recursive techniques of continued fractions with orthogonal problems, moment problems, Prony's problem of sparse recovery and the design of stable rational filters, which are all connected by continued fractions.

Adaptive Signal Representation with Application in Audio Coding Murtaza Ali 1996

The Cumulative Book Index 1992 A world list of books in the English language.

Mathematical Visualization H.-C. Hege 2013-03-09 Mathematical Visualization is a young new discipline. It offers efficient visualization tools to the classical subjects of mathematics, and applies mathematical techniques to problems in computer graphics and scientific visualization. Originally, it started in the interdisciplinary area of differential geometry, numerical mathematics, and computer graphics. In recent years, the methods developed have found important applications. The current volume is the quintessence of an international workshop in September 1997 in Berlin, focusing on recent developments in this emerging area. Experts present selected research work on new algorithms for visualization problems, describe the application and experiments in geometry, and develop new numerical or computer graphical techniques.

Mathematical Methods for Curves and Surfaces Michael Floater 2017-10-17 This volume constitutes the thoroughly refereed post-

conference proceedings of the 9th International Conference on Mathematical Methods for Curves and Surfaces, MMCS 2016, held in Tønsberg, Norway, in June 2016. The 17 revised full papers presented were carefully reviewed and selected from 115 submissions. The topics range from mathematical theory to industrial applications.

Mathematics of Surfaces XI Malcolm Sabin 2005-10-03 This book constitutes the refereed proceedings of the 11th IMA International Conference on the Mathematics of Surfaces, held in Loughborough, UK in September 2005. The 28 revised full papers presented were carefully reviewed and selected from numerous submissions. Among the topics addressed are Voronoi diagrams, linear systems, curvatures on meshes, approximate parameterization, condition numbers, pythagorean hodographs, artifacts in B-spline surfaces, Bézier surfaces of minimal energy, line subdivision, subdivision surfaces, level sets and symmetry, the topology of algebraic surfaces, embedding graphs in manifolds, recovery of 3D shape from shading, finding optimal feedrates for machining, and improving of range data.

IBM Journal of Research and Development 1992

Memoirs of the American Mathematical Society American Mathematical Society 1984

Stationary Subdivision Alfred S. Cavaretta 1991 Subdivision methods in computer graphics constitute a large class of recursive schemes for computing curves and surfaces. They seem to have their origin in the geometric problem of smoothing the corners of a given polyhedral surface - in fact, these methods are sometimes called "wood carver" algorithms because the repeated smoothing operations are analogous to sculpting wood. This book presents a systematic development of the basic mathematical principles and concepts associated with stationary subdivision algorithms. The authors pay special attention to the structure of such algorithms in a multidimensional setting and analyse the convergence issue using appropriate tools from Fourier analysis and functional analysis. The analytic structure of the limiting curves and surfaces is revealed in two ways: the smoothness of these surfaces is determined by certain algebraic properties of the algorithm, while the highest order derivatives of the limiting surfaces are shown to be fractals. Scientists interested in computer graphics, splines, wavelets, and multiresolution analysis will find the analytic and algebraic tools developed here more than useful.

Progress in Wavelet Analysis and Applications Yves Meyer 1993

Memoirs of the American Mathematical Society 1951

Acta Numerica 2002: Volume 11 Arie Iserles 2002-07 An annual volume presenting substantive survey articles in numerical mathematics and scientific computing.

American Book Publishing Record 1992

Remarks on the Theory of Prime Ends H. D. Ursell 1967

Modelling Economic Regimes Via Semi-nonparametric Regression Scott Dale Gilbert 1996

Reachability Problems Emmanuel Filiot 2019-09-06 This book constitutes the refereed proceedings of the 13th International Conference on Reachability Problems, RP 2019, held in Brussels, Belgium, in September 2019. The 14 full papers presented were carefully reviewed and selected from 26 submissions. The papers cover topics such as reachability for infinite state systems; rewriting systems; reachability analysis in counter/timed/cellular/communicating automata; Petri nets; computational aspects of semigroups, groups, and rings; reachability in dynamical and hybrid systems; frontiers between decidable and undecidable reachability problems; complexity and decidability aspects; predictability in iterative maps; and new computational paradigms.

Memoirs American Mathematical Society 1950

Multiscale Methods for Fredholm Integral Equations Zhongying Chen 2015-07-16 The recent appearance of wavelets as a new computational tool in applied mathematics has given a new impetus to the field of numerical analysis of Fredholm integral equations. This book gives an account of the state of the art in the study of fast multiscale methods for solving these equations based on wavelets. The authors begin by introducing essential concepts and describing conventional numerical methods. They then develop fast algorithms and apply these to solving linear, nonlinear Fredholm integral equations of the second kind, ill-posed integral equations of the first kind and eigen-problems of compact integral operators. Theorems of functional analysis used throughout the book are summarised in the appendix. The book is an essential reference for practitioners wishing to use the new techniques. It may also be used as a text, with the first five chapters forming the basis of a one-semester course for advanced undergraduates or beginning graduates.

Memoirs of the American Mathematical Society Patrick Eberlein

1950

Métodos de Bézier y B-splines Hartmut Prautzsch 2005 Este libro provee una base sólida para la teoría de curvas de Bézier y B-spline, revelando su elegante estructura matemática. En el texto se hace énfasis en las nociones centrales del Diseño Geométrico Asistido por Computadora con la intención de dar un tratamiento analíticamente claro y geoméricamente intuitivo de los principios básicos del área. También contiene material avanzado incluyendo splines multivariados, técnicas de subdivisión y la construcción a mano alzada de superficies con cualquier grado de suavidad. El libro está excelentemente bien ilustrado con diagramas y figuras que aluden directamente al material que se desarrolla en el texto y complementan su carácter constructivo. This book provides a solid and uniform derivation of the various properties Bezier and B-spline representations have, and shows the beauty of this underlying rich mathematical structure. The book focuses on the core concepts of Computer Aided Geometric design with the intention to give a clear and illustrative presentation of the basic principles, as well as a treatment of advanced material including multivariate splines, some subdivision techniques and constructions of free form surfaces with arbitrary smoothness. The text is beautifully illustrated with many excellent figures to emphasize the geometric constructive approach of this book. In diesem Buch werden die grundlegenden Konzepte des Geometrischen Designs (CAGD) dargestellt. Die Eigenschaften von Bézier- und B-Spline Darstellungen werden mit Hilfe von Polarformen einheitlich und stringent hergeleitet. Darüber hinaus werden Konstruktionen von Freiformflächen beliebiger Glattheitsordnung, Unterteilungsalgorithmen, Boxsplines, Simplexsplines und multivariate Splines behandelt. Der Text ist mit vielen hervorragenden Abbildungen illustriert, die den geometrisch konstruktiven Zugang des Buches deutlich hervorheben.

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